

### **ABSTRACT**

A power supply useful in a printer or copier includes a main circuit for deriving a first predetermined voltage from a mains voltage, and a secondary circuit for deriving a second predetermined voltage from the same transformer which also generates the voltage for the first predetermined voltage. A preload circuit applies a preload current on the main circuit as a result of the secondary circuit going out of control, such as caused by a high load on the second terminal and a low load on the first terminal.